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FORM PTO-1449
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U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: DOW-04647

Serial No.: 09/580,704

INFORMATION ASSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)

Applicant: George Peter Lomonosoff *et al.*

Filing Date: 05/30/00

Group Art Unit: 1636

(37 CFR § 1.98(b))

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
<i>[initials]</i>	1	4,407,956	10/04/83	Howell	435	172	3/13/81
<i>[initials]</i>	2	4,593,002	6/03/86	Dulbecco	435	172.3	1/11/82
<i>[initials]</i>	3	4,722,840	2/02/88	Valenzuela <i>et al.</i>	424	88	9/19/85
<i>[initials]</i>	4	4,885,248	12/05/89	Ahlquist	435	172.3	3/09/87
<i>[initials]</i>	5	4,956,282	9/11/90	Goodman <i>et al.</i>	435	69.51	7/29/85
<i>[initials]</i>	6	5,173,410	12/22/92	Ahlquist	435	9	10/03/89
<i>[initials]</i>	7	5,500,360	3/19/96	Ahlquist <i>et al.</i>	435	172.3	3/14/94
<i>[initials]</i>	8	5,846,795	12/08/98	Ahlquist <i>et al.</i>	435	172.3	6/05/95

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
<i>[initials]</i>	9	0174 759 A1	3/19/86	EPO				
<i>[initials]</i>	10	067 553 A2	12/22/82	EPO				
<i>[initials]</i>	11	194 809 A1	9/17/86	EPO				
<i>[initials]</i>	12	221 044 B1	5/06/87	EPO				
<i>[initials]</i>	13	0 278 667	8/17/88	EPO				
<i>[initials]</i>	14	WO 87/06261	10/22/87	PCT				
<i>[initials]</i>	15	WO 89/08145	4/08/89	PCT				
<i>[initials]</i>	16	WO 90/00611	1/25/90	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

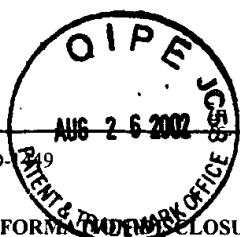
<i>[initials]</i>	17	Abad-Zapatero, C. <i>et al.</i> , "Structure of southern bean mosaic virus at 2.8 Å resolution," <i>Nature</i> 286:33-39 (1980)
<i>[initials]</i>	18	Abstract W47-007 - Submitted to 8th International Congress to Virology in Berlin (1990) Rohl <i>et al.</i> , Investigation of the structure and function of comovirus capsids.
<i>[initials]</i>	19	Ahlquist, P., and Janda, M., "cDNA Cloning and In Vitro Transcription of the Complete Brome Mosaic Virus Genome," <i>Mol. Cell Biol.</i> 4:2876-2882 (1984)
<i>[initials]</i>	20	Ahlquist <i>et al.</i> , "Molecular Studies of Brome Mosaic Virus Using Infectious Transcripts from Cloned cDNA" <i>Adv. Virus. Res.</i> 32:215-42 (1987)
<i>[initials]</i>	21	Ahlquist <i>et al.</i> , "Sindbis Virus Proteins nsP1 and nsP2 Contain Homology to Nonstructural Proteins from Several RNA Plant Viruses" <i>J. Virol.</i> 53(2):536-42 (1985)
<i>[initials]</i>	22	Ahlquist <i>et al.</i> , "Nucleotide Sequence of the Brome Mosaic Virus and its Implications for Viral Replication" <i>J. Mol. Biol.</i> 172:369-83 (1984)
<i>[initials]</i>	23	Ahlquist <i>et al.</i> , "Complete Nucleotide Sequence of Brome Mosaic Virus RNA3" <i>J. Mol. Biol.</i> 153:23-38 (1981)
<i>[initials]</i>	24	Argos <i>et al.</i> , "Similarity in gene organization and homology between proteins of animal picornaviruses and a plant comovirus suggest common ancestry of these virus families," <i>Nucleic Acids Research</i> 12(18):7251-7267 (1984)
<i>[initials]</i>	25	Biggin, M.D. <i>et al.</i> , "Buffer gradient gels and ³⁵ S label as an aid to rapid DNA sequence determination," <i>Proc. Natl. Acad. Sci. USA</i> 80:3963-3965 (1983)

Examiner: *William S. Adams*

Date Considered: *3-11-03*

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-199 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: DOW-04647	Serial No.: 09/580,704
INFORMAL DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)				Applicant: George Peter Lomonosoff <i>et al.</i>	
				Filing Date: 05/30/00	Group Art Unit: 1636
(37 CFR § 1.98(b))					
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
	26	Blimboim, H.C. and Doly, J., "A rapid alkaline extraction procedure for screening recombinant plasmid DNA," <i>Nucleic Acids Res.</i> 7:1513-1523 (1979)			
	27	Chanh, T.C., <i>et al.</i> , "Induction of anti-HIV neutralizing antibodies by synthetic peptides," <i>EMBO J.</i> 5:3065-3071 (1986)			
	28	Chen <i>et al.</i> , "Capsid Structure and RNA Packaging in Comoviruses," <i>Seminars in Virology</i> 1:453-466 (1990)			
	29	Chen, Z. <i>et al.</i> , "Protein-RNA Interactions in an Icosahedral Virus at 3.0 Å Resolutions," <i>Science</i> 245:154-159 (1989)			
	30	Crabbe <i>et al.</i> , "Modelling of poliovirus, HIV-1 antigen chimaeras," <i>FIBS Letters</i> 271:194-198 (1990)			
	31	Dalgleish, A.G., <i>et al.</i> , "Neutralization of Diverse HIV-1 Strains by Monoclonal Antibodies Raised against a gp41 Synthetic Peptide," <i>Virology</i> 165:209-215 (1988)			
	32	De Varennes, A. and Maule, A.J., "Independent Replication of Cowpea Mosaic Virus Bottom Component RNA: <i>In Vivo</i> Instability of the Viral RNAs," <i>Virology</i> 144:495-501 (1985)			
	33	Dessens, J.T. and Lomonosoff, G.P., "Mutational Analysis of the Putative Catalytic Triad of the Cowpea Mosaic Virus 24K Protease," <i>Virology</i> 184:738-746 (1991)			
	34	Eggen <i>et al.</i> "Improvements of the Infectivity of In Vitro Transcripts from Cloned Cowpea Mosaic Virus cDNA: Impact of terminal Nucleotide Sequences" <i>Virology</i> 173:447-55 (1989)			
	35	Eggen <i>et al.</i> , "Analysis of Sequences Involved in Cowpea Mosaic Virus RNA Replication Using Site Specific Mutants" <i>Virology</i> 173:456-64 (1989)			
	36	Evans <i>et al.</i> , "An engineered poliovirus chimaera elicits broadly reactive HIV-1 neutralizing antibodies," <i>Nature</i> 339:385-388 (1989)			
	37	Feinberg, A.P. and Vogelstein, B., "A Technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity," <i>Analytical Biochem.</i> 132:6-13 (1983)			
	38	Fox, "No winners against AIDS," <i>Bio/Technology</i> 12:128 (1994)			
	39	French <i>et al.</i> , "Bacterial Gene Inserted in an Engineered Plant Virus: Efficient Expression in a Monocotyledenous Plant" <i>Science</i> 231:1294-97 (1986)			
	40	Goldbach, R., <i>et al.</i> , "Independent replication and expression of B-component RNA of cowpea mosaic virus," <i>Nature</i> 286:297-300 (1980)			
	41	Gorbalenya <i>et al.</i> , "An NTP-Binding Motif is the Most Conserved Sequence in a Highly Diverged Monophyletic Group of Proteins Involved in Positive Strand RNA Viral Replication," <i>J. of Mol. Evol.</i> 28:256-268 (1989)			
	42	Harrison, S.C. <i>et al.</i> , "Tomato bushy stunt virus at 2.9 Å resolution," <i>Nature</i> 276:368-373 (1978)			
	43	Haselhoff <i>et al.</i> , "Striking Similarities in Amino Acid Sequence Among Nonstructural Proteins Encoded by RNA Viruses that Have Similar Genomic Organization" <i>Proc. Natl. Acad. Sci. USA</i> 81:4358-62 (1984)			
	44	Hayes, R.J., <i>et al.</i> , "Stability and expression of bacterial genes in replicating geminivirus vectors in plants," <i>Nucleic Acids Research</i> 17(7):2391-2403 (1989)			
	45	Haynes <i>et al.</i> , "Development of a Genetically-Engineered, Canidate Polio Vaccine Employing the Self-Assembling Properties of the Tobacco Mosaic Virus Coat Protein," <i>Bio/Technology</i> 4:637-641 (1986)			
	46	Hogle, J.M. <i>et al.</i> , "Structure and Assembly of Turnip Crinkle Virus I. X-ray Crystallographic Structure Analysis at 3.2 Å Resolution," <i>J. Mol. Biol.</i> 191:625-638 (1986)			
	47	Holness, C.L., <i>et al.</i> , "Identification of the Initiation Codons for Translation of Cowpea Mosaic Virus Middle Component RNA Using Site-Directed Mutagenesis of an Infectious cDNA Clone," <i>Virology</i> 172:311-320 (1989)			
	48	Janda <i>et al.</i> , "High Efficiency T7 Polymerase Synthesis of Infectious RNA from Cloned Brome Mosaic Virus cDNA and Effect of 5' Extensions on Transcript Infectivity" <i>Virology</i> 158:259-262 (1987)			
	49	Kennedy, R.C., <i>et al.</i> , "Antiserum to a Synthetic Peptide Recognizes the HTLV-III Envelope Glycoprotein," <i>Science</i> 231:1556-1559 (1986)			
	50	Kunkel, T.A., "Rapid and efficient site-specific mutagenesis without phenotypic selection," <i>Proc. Nat. Acad. Sci. USA</i> 82:488-492 (1985)			
Examiner:		Date Considered: 3-11-03			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					



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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

51	Laemmli, U.K., "Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4," <i>Nature</i> 227:680-685 (1970)
52	Lehrach, H., <i>et al.</i> , "RNA Molecular Weight Determinations by Gel Electrophoresis under Denaturing Conditions, a Critical Reexamination," <i>Biochemistry</i> 16:4743-4751 (1977)
53	Liljas, L. <i>et al.</i> , "Structure of Satellite Tobacco Necrosis Virus at 3.0 Å Resolution," <i>J. Mol. Biol.</i> 159:93-108 (1982)
54	Lomonosoff, G.P., <i>et al.</i> , "The location of the first AUG codons in cowpea mosaic virus RNAs," <i>Nucleic Acids Research</i> 10:4861-4872 (1982)
55	Lomonosoff, G.P. and Shanks, M., "The nucleotide sequence of cowpea mosaic virus B RNA," <i>EMBO J.</i> 2: 2253-2258 (1983)
56	Lomonosoff <i>et al.</i> , "The Synthesis and Structure of Comovirus Capsids," <i>Prog Biophys Mol Biol.</i> 55:107-137 (1991)
57	Namba, N., <i>et al.</i> , "Structure of Tobacco Mosaic Virus at 3.6 Å Resolution: Implications for Assembly," <i>Science</i> 231:1401-1406 (1986)
58	Pelham, H.R.B. and Jackson, R.J., "An Efficient mRNA-Dependent Translation System from Reticulocyte Lysates," <i>Eur. J. Biochem.</i> 67:247-256 (1976)
59	Rose, C. and Evans, D., "Poliovirus antigen chimeras," <i>TIBTECH</i> 9:415-421 (1991)
60	Rossmann <i>et al.</i> , "Icosahedral RNA Virus Structure, in <i>Annual Reviews of Biochemistry</i> 58:533-573 (1989)
61	Sanger, F., <i>et al.</i> , "Cloning in Single-stranded Bacteriophage as an Aid to Rapid," <i>J. Mol. Biol.</i> 143:161-178 (1980)
62	Shanks, M., <i>et al.</i> , "The Primary Structure of Red Clover Mottle Virus Middle Component RNA," <i>Virology</i> 155:697-706 (1986)
63	Stauffer, C.V. <i>et al.</i> , "The Structure of Cowpea Mosaic Virus at 3.5 Å Resolution," <i>Crystallography in Molecular Biol.</i> pp. 293-308 (1985)
64	Takamatsu, N., <i>et al.</i> , "Production of enkephalin in tobacco protoplasts using tobacco mosaic virus RNA vector," <i>FEBS Letters</i> 269 (1):73-76 (1990)
65	van Wezenbeek, <i>et al.</i> , "Primary structure and gene organization of the middle-component RNA of cowpea mosaic virus," <i>EMBO J.</i> 2:941-946 (1983)
66	Wimmer, "Genome-Linked Proteins of Viruses," <i>Cell</i> 28:199-201 (1982)
67	Ziegler-Graff, <i>et al.</i> , "Biologically Active Transcripts of Beet Necrotic Yellow Vein Virus RNA-3 and RNA-4," <i>J. Gen. Virol.</i> 69:2347-2357 (1988)
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Examiner:

William S. Smith

Date Considered:

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